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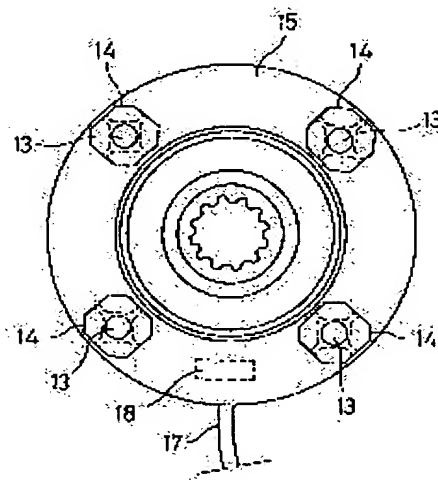
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(54) HUB BEARING UNIT

(57)Abstract:

PURPOSE: To minimize influence of inertia force by installing an annular carrier connected to a force sensor as a measuring means in a second ring on the chassis side to a first ring on the wheel side and measuring external force to a wheel by means of the measuring means.

CONSTITUTION: A first ring connected to a wheel and a non-rotatable second ring connected to a chassis are arranged, and a washer 15 in the second ring is fixed to the chassis by means of four bolts penetrating mounting holes 13 respectively. A measuring body 14 having a sensor element detecting external force working on the wheel is arranged in the mounting hole 13. The sensor element, which is a coating layer containing amorphous magnetostrictive material for example, is installed to the measuring body 14 by an adhesive and the like. The four measuring bodies 14 are mounted on a single base and fixed by means of bolts penetrating through holes. As mechanical distortion of the coating layer changes a magnetic characteristic, this change is measured, and according to its signal, influence of inertial force working on the wheels and a suspension is lowered.



LEGAL STATUS

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